SFUND RECORDS CTR 2070509



"Perina, Tom/SBO" <Tom.Perina@CH2M.com> 06/10/2004 09:50 AM To Christopher Lichens/R9/USEPA/US@EPA, "Wuttig, Mark/THO" <Mark.Wuttig@CH2M.com>

cc bcc

Subject OPOG data

Hello Chris and Mark:

This is a summary of OPOG's most recent investigation for OU-1. Results that we have are noted below. We only have some of the data that were acquired in the filed.

Also noted is our October request for more interpretation, which was not met.

October 2003

4 borings drilled on Putnam Str., CH2M HILL field oversight person took notes of the lithology (e.g., brief visual soil logs) for B-1 and B-3

EPA sent comments dated October 15, 2003 on Draft Report Addendum for Additional Data Collection in the Phase 1a Area , by CDM, dated June 27, 2003; comment no. 2 requested cross-sections

November

2 piez. installed on Putnam Str., see below e-mail Nov 10 from Sharon (fwd from Chris) hinting on results pumping test conducted on OW8 (e-mail 11/20/03 from Sharon attached)

<u>January</u>

MIP (membrane interface probe) + Geoprobe (deep vadose zone soil samples taken) investigation; we have copies of field printouts of MIP logs for GP4, GP5, and GP6 that all show PID peaks around the water table

February groundwater sampling; we took 2 splits

April soil gas investigation; we took 2 splits

May ambient air sampling; we took 2 splits

For our oversight, the intent is to take limited splits and compare them to OPOG's results, not to duplicate all OPOG's sampling efforts. We do not collect site characterization data, only data for "verification" analysis.

OPOG/CDM likely have boring logs, analytical results for soil and groundwater, MIP results, pumping test results, water levels, and soil gas results.

Considering the recent and October comments and responses, it seems that there is some aversion to sharing interpretation of results, especially cross-sections on the part of OPOG/CDM.

Chris, I would like to remind you to request all analytical results in electronic format, or at least groundwater analytical results and water levels. Please consider offering the results of our split samples and OU-2 samples to OPOG.

Please also request the electronic transducer data for the OW8 pumping test to be included when they

report the test results.

Tom

From: Wallin, Sharon [mailto:WallinSL@cdm.com]

Sent: Monday, November 10, 2003 11:47 AM

To: 'ChuckMcLaughlin'; Chamberlin, David: 'EdModiano': GregTaylor

(gstaylor@raytheon.com)

Subject: Status of Putnam Drilling

All - we finished the drilling and piezometer installation on Putnam Street on Saturday. Lithology at the boring locations was more fine-grained than coarse, and so very different from OW8. Also, at most locations we encountered a tight, dry material (clays and silty clays) at depths of approx. 85 to 90 feet bgs. As soon as the lith logs are Ginted, I will pdf and e-mail them to you.

Piezometer development is scheduled for this Wednesday, with test pump installation in well OW8 on Friday. Aguifer testing (step test and 12 hour

constant) will commence next week.

Will keep you posted.

----- Message from "Wallin, Sharon" <WallinSL@cdm.com> on Thu, 20 Nov 2003 16:58:48 -0600 ----- <Perina, Tom/SBO" <Tom.Perina@CH2M.com" :To

"EdModiano" <edm@demaximis.com>, "ChuckMcLaughlin"

RE: OW8 test Subj

Hi Tom - FYI, the pump installed in well OW8 was shut down this morning after approximately 20 hours of pumping. An approximate rate of 10.6 gpm was sustained during the test, with drawdown observed at all monitored wells. The pump and transducers will be removed tomorrow morning (Friday) starting at 7am.

Your e-mail below contains some misinformation that I would like to clarify. The aquifer testing program is being conducted by John Dustman (Summit Environmental Solutions) under subcontract to de maximis, with CDM and de maximis staff providing field support. Summit was selected as a subcontractor for the project because it has developed proprietary software that provides real-time analysis and 3-dimensional presentations of the aquifer testing results. Prior to the start of aquifer testing, John Dustman was provided with and reviewed the prior well OW8 testing results. In addition, the demaximis staff on site during aquifer testing were also involved with the prior testing at OW8.

The November 11, 2003 memorandum from CDM to USEPA indicated that step-drawdown testing would be performed prior to initiating the 12-hour constant rate test, in order to determine an appropriate pumping rate. According to John Dustman, it is likely that well OW8 could have sustained a higher pumping rate (on the order of 15 gpm), had the testing been completed with the original pump. The

replacement pump was longer than the original pump and reduced the amount of available drawdown. The pumping portion of the test was subsequently extended to approximately 20 hours.

Regards, Sharon Wallin

----Original Message----

From: Tom.Perina@ch2m.com [mailto:Tom.Perina@ch2m.com]

Sent: Wednesday, November 19, 2003 11:31 AM

To: Wallin, Sharon

Cc: lichens.christopher@epa.gov; Dan.Jablonski@ch2m.com

Subject: OW8 test

Hello, Chris,

Dan was at the Omega site yesterday and today for the OW-8 pumping test CDM is conducting. He noted that CDM started the pumping at 22 gpm and had to stop because the water level in the pumping well was dropping close to the pump (the drawdown was about 6 ft). The next pumping rate used yesterday, before the pump malfunctioned, was 16 gpm. I want to note that during the previous pumping test on well OW-8, CDM used a rate of 10.4 gpm; the drawdown was 2.9 ft after 4 hours and still increasing. The well may not sustain a rate much higher than 10 gpm for the planned test duration of 15 hours. It seemed that the field crew did not have this information on hand. They just called that the test will restart in about 2 hours, we will call them with this info to help set a sustainable rate.

Regards,

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